

Electronic Acknowledgement Receipt

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|---|---|
| EFS ID: | 3095847 |
| Application Number: | 10782017 |
| International Application Number: | |
| Confirmation Number: | 7331 |
| Title of Invention: | Solution-based fabrication of photovoltaic cell |
| First Named Inventor/Applicant Name: | Dong Yu |
| Customer Number: | 27652 |
| Filer: | Hao Y. Tung |
| Filer Authorized By: | |
| Attorney Docket Number: | NSL-029 |
| Receipt Date: | 02-APR-2008 |
| Filing Date: | 19-FEB-2004 |
| Time Stamp: | 22:58:53 |
| Application Type: | Utility under 35 USC 111(a) |

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| Submitted with Payment | yes |
| Payment Type | Credit Card |
| Payment was successfully received in RAM | \$ 180 |
| RAM confirmation Number | 4539 |
| Deposit Account | |
| Authorized User | |

File Listing:

| Document Number | Document Description | File Name | File Size(Bytes) /Message Digest | Multi Part /.zip | Pages (if appl.) |
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| 1 | Information Disclosure Statement (IDS) Filed | NSL-029_IDS_040208.pdf | 128469 43bc8554a59496e8553b0a91ab24a0c 2a124e004 | no | 7 |
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| This is not an USPTO supplied IDS fillable form | | | | | |
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| 3 | Foreign Reference | refAS_EP793277.pdf | 3321900 8ddc8190d5417346570570fa21205e43 0094f03b | no | 58 |
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| 4 | Foreign Reference | refAT_JP62-89369.pdf | 282200 7fa70605e10d5987e407c3738847d13 b3192ca4 | no | 8 |
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| 5 | Foreign Reference | refAU_JP63-249379.pdf | 156583 b0f1d845e5989d4a79051bd4277fd71 2f6d4 | no | 4 |
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| 6 | Foreign Reference | refAV_WO02084708.pdf | 1573778 b661c8ac35d8748f5a5e40f933cdff88 d30e8b | no | 50 |
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| 7 | Foreign Reference | refAW_WO03007386.pdf | 833367 1ed5cb0e022167033d329e2db4ef7bf a11a5b | no | 18 |
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| 8 | Foreign Reference | REF_AX_jp61244004_4.pdf | 1488444 734d21272b7063004a2111ab11082 c0fa285 | no | 9 |
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| 9 | NPL Documents | Ref_AY_Non-vacuum-proce ssing.PDF | 362877 bfb4403a5e0b46a231107a7a7a6ed7773d ed39576 | no | 5 |

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| 10 | NPL Documents | Ref_AZ_Thin-film-copper-indium-prepared-by-selenization.PDF | 861480 9tb877d281c9f8ce1b16a5cd928e2232 7bd1618 | no | 12 |
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| 11 | NPL Documents | Ref_BA_Non-vacuum-processing-of-CIGS-solar-cells.PDF | 221351 325434318a5623427ab07b9a5d5743e1 41b2230a | no | 2 |
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| 12 | NPL Documents | Ref_BB_CuInSe2-films-prepared-by-screen-printing-and-sintering-method.PDF | 375611 72985d223960f16e7edcd661d89795c7 0079fe1 | no | 6 |
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| 13 | NPL Documents | Ref_BC_Cu-In-Ga-Se-nanoparticle-colloids-as-spray-deposition-precursors.PDF | 486476 6829ee63990a70281d27c1d5c00346 c312c030c | no | 5 |
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| 14 | NPL Documents | Ref_BD_Solid-state_and_solution_phase_methathetical-synthesis.PDF | 348507 353459eff5db61d9e1b6875332aa29 c4e3cc76 | no | 3 |
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| 15 | NPL Documents | Ref_BE_Preparation-of-copper-indium-diselenide-by-selenization.PDF | 755433 e01be4f7dca75035f815ca7b02ba836b 5789109 | no | 7 |
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| 16 | NPL Documents | Ref_BF_CIS-film-growth-by-metallic-link-coating-and-selenization.PDF | 485589 b05271841909f8166551407bcu40765 986654c2 | no | 8 |
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| 17 | NPL Documents | Ref_BG_Thin-film-CIS-alloy-PV-material.PDF | 518524 7d24ec6678e20b0c1998a9558060d5 c033ae052d | no | 5 |
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| 18 | NPL Documents | Ref_BH_Improved-processes-for-forming-CuInSe2-films.PDF | 305988 b604d496bd51225421fc7e049dd8e0 3e57ab | no | 4 |

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| 19 | NPL Documents | Ref_BL_Non-vacuum-thin-film-CIGS-modules.PDF | 377992 6db24ad9b90bb54ca2d6f737b17a50da16 9bd71db3 | no | 6 | |
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| 20 | NPL Documents | Ref_BJ_CIS-and-CIGS-layers-from-selenized-anoparticle-precursors.PDF | 366264 5cad74c0957876bb51c1cfc0201227bc41 e81712a | no | 5 | |
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| 21 | NPL Documents | Ref_BK_Electrosprayed-and-selenized-CuIn-metal-particle-films.PDF | 490077 927c623d540e50bf5d95361e7058e 61e279fa | no | 6 | |
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| Information: | | | | | | |
| 22 | NPL Documents | Ref_BL_Electrodeposited-CuInSe2-thin-film-junctions.PDF | 522093 7ed8659c108c3ec0d017e579f609f68a d266161 | no | 11 | |
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| 23 | NPL Documents | Ref_BM_Photoacoustic-spectroscopy-of-sprayed.PDF | 233594 dd113bfa06070501c204ad5499d809 123818f | no | 3 | |
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| 24 | NPL Documents | Ref_BN_Recrystallization.PDF | 266403 76681b3de1b4d85857cce0843d4948e1 a79d0c61 | no | 3 | |
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| 25 | NPL Documents | Ref_BO_Electrodeposition-and-characterisation-of-CuInSe2.PDF | 449095 3e65b81d9ba5413bced3dbce92ad54ff 795ca20c | no | 6 | |
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| 26 | NPL Documents | Ref_BP_Electrodeposition-of-Indium-onto-vitreous-carbon.PDF | 668965 e8846dbd9b0712bad9b8c85ea52a5fe ba9f6e99 | no | 8 | |
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| 27 | NPL Documents | Ref_BQ_Planarization-of-copper-thin-by-electropolishing.PDF | 642034 e00b8aaad73e3d8be77dad9b8c85ea52a5fe 025987ed | no | 5 | |

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| 28 | NPL Documents | Ref_BR_Electrodeposition-of-molten-low-melting-metals-and-alloys.PDF | 808023 2a215eda14a0b15791cbce097eb6e1 d8b1bddd | no | 6 | |
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| 29 | NPL Documents | Ref_BS_Electrodeposition-of-molten-metals-and-alloys-from-glycerine.PDF | 715757 3690db331a5a71c1b0b16b7a3d18cf 7752dc | no | 6 | |
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| 30 | NPL Documents | Ref_BT_The_electrochemistry_of_gallium.PDF | 575002 995e4cf5a5a43ceca0d2d7c2457b3610b 363fb6 | no | 5 | |
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| 31 | NPL Documents | Ref_BU_Electrochemical-quant-crystal-microbalance-study.PDF | 911051 62771d3e477840673200b0f164c0068c 5dd2964 | no | 9 | |
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| 32 | NPL Documents | Ref_BV_Junction-formation-studies-of-one-step-electrodeposited-CuInSe2.PDF | 660234 255b8ed173205a0057c249b2bd81c 2e1015d | no | 6 | |
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| 33 | NPL Documents | Ref_BW_Non-vacuum.PDF | 400214 a4700af33b9a9e942bc6537461f258a6 652e55d | no | 5 | |
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| 34 | NPL Documents | REF_BY_PRLTAO_35_24_1_652_1.pdf | 725420 04a2426414ea4a7776e9bd542336ea15 28735cb | no | 4 | |
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| 35 | NPL Documents | REF_BZ_H1.pdf | 417760 aa0fb6e419520307618a38b622ce429 4039956b | no | 4 | |
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| 36 | NPL Documents | REF_CA_H2.pdf | 826463 2a8817af59b135ed26c14639e4fb260 36e7005 | no | 8 | |

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| 37 | NPL Documents | REF_CB_H3_small.pdf | 1449856 154e4b9455b4b102335fe51aef5a2d a187c4b | no | 8 |
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| 38 | NPL Documents | REF_CC_metastable.pdf | 275418 996055a462384718e62d97cf9190d3b 78c550c0 | no | 4 |
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| 39 | NPL Documents | REF_CE_TEM_observations.pdf | 557592 d27e234abeb9b67ce18ff27e922975e cd4c4ef | no | 6 |
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| 40 | NPL Documents | REF_CF_gallium_droplet_for mation_during_movepe.pdf | 97700 1600563ea2719a3d3d0ba1b60018491 24670e3 | no | 3 |
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| 41 | NPL Documents | REF(CG)_electron_diffraction_study.pdf | 167497 97596674ac1730ea4aee93f9c907d6 039b9571 | no | 4 |
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| 42 | NPL Documents | REF_CH_File0022.PDF | 537441 e42bed40c062aa973257e579fd164123 92fa51be | no | 7 |
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| 43 | NPL Documents | REF_BX_miyazawa_article_. small.pdf | 2475394 aecd103940e0c464b5a1941e9c1b92 d9f6cbe | no | 13 |
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| 44 | NPL Documents | REF_CD_fabrication2.pdf | 1165199 36119891b1ac5b1c201b90e12b24873 39473e7 | no | 3 |
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| 45 | NPL Documents | REF_CI_NSL-019B_. small.pdf | 5836383 46001ab25953d44da595d10a7d26 89f6866 | no | 19 |

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| 46 | Fee Worksheet (PTO-06) | fee-info.pdf | 8147 f1151691b6764eb0da82b0931f485aa15 b7d951e4 | no | 2 | | | |
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